BIOLOGY

NCERT - NCERT BIOLOGY(TELUGU)

EXCRETION - THE WASTAGE DISPOSING SYSTEM

Think And Discuss

1. Do cells need excretion ?

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2. Why we advised to take sufficient water?

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3. Why do some children pass urine during sleep at night until 15 or 16 years of age?

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4. Why are weeds and wild plants not affected by insects and pests?

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5. Do cells need excretion ?

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Improve Your Learning

1. What is meant by excretion?

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2. How are waste products excreted in amoeba ?

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3. Name different excretory organs in human body and excretory material generated by them?

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4. Deepak said that 'Nephrons are functional and structural units of kidneys' . How will you support him?

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5. How do plants manage the waste materials?

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6. Why do some people need to use a dialysis machine? Explain the principal involved

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7. What is meant by osmoregulation? How is it maintained in human body?

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8. Do you find any relationship between circulatory system and excretory system? What are they?

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9. Give reasons.

Always vasopressin is not secreted.

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Diameter of afferent arteriole is bigger than efferent arteriole.

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13. Write differences between,

A. Functions of PCT and DCT

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14. Write difference

Kidney and artificial kidney

Watch Video Solution

15. Write difference

Excretion and secretion

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16. Write difference

Primary metabolites and secondary metabolites

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17. There is a pair of bean-shaped organs 'P' in the human body towards the back, just above the waist. A waste product 'Q formed by the decomposition of unused proteins in liver is brought into organ 'P' through blood by an artery "R". The numerous tiny filters 'S' present in organ 'P' clean the dirty blood goes into circulation through a vein 'T'. The waste substance 'Q' and other waste salts and excess water form a yellowish liquid 'U' which goes from organ 'P' into a bag like structure 'V' through two tubes 'W'. This liquid is then thrown out of the body through a tube 'X'.

What is (i) organ P and (ii) waste substance Q.

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through blood by an artery "R". The numerous tiny filters 'S' present in organ 'P' clean the dirty blood goes into circulation through a vein 'T'. The waste substance 'Q' and other waste salts and excess water form a yellowish liquid 'U' which goes from organ 'P' into a bag like structure 'V' through two tubes 'W'. This liquid is then thrown out of the body through a tube 'X'.

Name (i) artery R and (ii) vein T.

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What are tiny filters S known as?

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Name (i) liquid (ii) structure V (iii) tubes W (iv) tube X.

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21. The organ ‘A’ of a person has been damaged completely due to a poisonous waste material "B' has started accumulation in his blood, making it dirty. In order to save this person's life, the blood from an artery in the person's arm is made to flow into long tubes made of substance 'E'which are kept in coiled form in a tank containing solution "F". This solution contains three materials 'G', 'H' and 'I' similar proportions to those in normal blood. As the person's blood passes through long tubes of substance 'E', most if the wastes present in it go into solution 'F'. The clean blood is then put back into a vein in the person for circulation

What is organ A?

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Name the wastes substance B.

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What are (i) E, and (ii) F?

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What is the process described above known as ?

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26. Imagine what happens if waste materials are not sent out of the body from time to time.

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27. To keep your kidneys healthy for long period what questions will you ask a nephrologist/urologist?

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28. What are the gum yielding trees in your surroundings ? What procedure should you follow to collect gum from trees?

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30. Draw a neat labelled diagram of L.S of kindney.

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68. Describe the structure of Renal tubule with neatly labelled diagram. Draw a diagram of a nephron and explain its structure.

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Fill In The Blanks

1. Earthworm excretes its waste material through ..... .

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2. The dark coloured outer zone of kidney is called ..... .

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3. The process of control of water balance and ion concentration within organism is called ..... .

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4. Reabsorption of useful product takes place in ..... part of nephron.

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5. Gums and resins are the ..... products of the plants.

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6. Bowman's capsule and tubule taken together make a _____.

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7. The alkaloid used for malaria treatment is _____.

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8. The principle involved in dialysis .....

Watch Video Solution

9. Rubber is produced from _____ of Heavea braziliensis.

Watch Video Solution

10. Who performed the first kidney transplantation?

Watch Video Solution

11. Earthworm excretes its waste material through ..... .

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12. The dark coloured outer zone of kidney is called ..... .

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20. _____developed dialysis machine.

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Choose The Correct Answer

1. The structural and functional unit of human kidney is called .....

A. Neuron

B. nephron

C. nephridia

D. flame cell

Answer:

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2. The excretory organ in cockroach

A. malpighian tubules

B. raphids

C. ureters

D. nephridia

Answer:

Watch Video Solution

3. Which of the following is the correct path taken by urine in our body?

(i) Kidneys (ii) Ureters (iii) Urethra (iv) Urinary bladder ( )

A. i, ii, iv, iii

B. i, ii, iii, iv

C. iv, iii, i, ii

D. ii,iii, i, iv

Answer:

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4. Malpighian tubes are excretory organs in ( )

A. earth worm

B. house fly

C. flatworm

D. hen

Answer:

Watch Video Solution

5. Major component of urine is ( )

A. urea

B. sodium

C. water

D. creatine

Answer:

Watch Video Solution

6. Special excretory organs are absent in ( )

A. birds

B. amoeba

C. sponges

D. a and b

Answer:

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7. Which of the following hormone has direct impact on urination? ( )

A. adrenal

B. vasopressin

C. testosterone

D. Oestrogen

Answer:

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8. Amber colour to urine due to ( )

A. urochrome

B. bilirubin

C. biliverdin

D. chlorides

Answer:

Watch Video Solution

9. Sequence of urine formation in nephron is ( )

A.

Glomerular filtration - Tubular reabsorption -Tubular secretion

B.

Tubular reabsorption - Tubular secretion - Glomerular filtration

C.

Tubular secretion - Glomerular filtration - Tubular reabsorption

D.

Tubular reabsorption - concentration of urine - Tubular secretio

Answer:

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10. Part of the nephron that exists in outer zone of kidney. ( )

A. Loop of the henle

B. PCT

C. DCT

D. Bowman's capsule

Answer:

Watch Video Solution

11. After having lunch or dinner one can feel to pass urine, because of a ( )

A. stomach pressures on bladder

B. solids become liquids

C. water content in food material

D. spincter relaxation

Answer:

Watch Video Solution

12. The excretory unit in the human excretory system is called

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B. Tubular reabsorption, Tubular secretion, Glomerular filtration,

C. Tubular secretion, Glomerular filtration, Tubular reabsorption

D. Tubular reabsorption, concentration of urine, Tubular secretion

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